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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,055	07/31/2003	Steven Wynveen	M09666	9966
7590 06/30/2004			EXAMINER	
William D. Lanyi, Esq.			VASUDEVA, AJAY	
Mercury Marine.	Division of Brunswick	Corporation		
W6250 Pioneer Road			ART UNIT	PAPER NUMBER
P.O. Box 1939			3617	
Fond du Lac, WI 54936-1939			DATE MAIL ED. 06/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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~	Application No.	Applicant(s)	100			
	10/632,055	WYNVEEN ET AL.	-			
Office Action Summary	Examiner	Art Unit				
	Ajay Vasudeva	3617				
The MAILING DATE of this communica	tion appears on the cover sheet w	ith the correspondence addres	SS			
	ATION. 37 CFR 1.136(a). In no event, however, may a cation. ays, a reply within the statutory minimum of thir cry period will apply and will expire SIX (6) MON, by statute, cause the application to become All the mailing date of this communication, even if ON This action is non-final.	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this comming the second se				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-15 is/are pending in the approach 4a) Of the above claim(s) is/are 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,6,7 and 12 is/are rejected 7) Claim(s) 3-5,8-11 and 13-15 is/are object 8) Claim(s) are subject to restriction 	withdrawn from consideration ected to.					
Application Papers						
9) The specification is objected to by the E 10) The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to b	a) accepted or b) objected to on to the drawing(s) be held in abeyate correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1				
Priority under 35 U.S.C. § 119						
•	ocuments have been received. Ocuments have been received in A the priority documents have been Il Bureau (PCT Rule 17.2(a)).	Application No n received in this National Sta	ige			
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☑ Notice of Draftsperson's Patent Drawing Review (PTC 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date filed 7/31/2003.)-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-15	2)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 6, 7, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Shanahan et al.

Shanahan et al. shows a cooling system for a marine propulsion device, having a water pump [6] for drawing water from a body of water in which the marine propulsion device is operated, an engine having a cylinder head and a cylinder block (figure 1), and an exhaust conduit connected in fluid communication with the engine to conduct exhaust gasses away from said engine. The cooling system has a first cooling passage [1], a second cooling passage [2], and a third cooling passage [3].

Because the first cooling passage is fluidically connected upstream of the cylinder head, it is able to transfer heat to the cylinder head. Therefore, the first cooling passage is considered as being disposed in thermal communication with the cylinder head, even though it is not physically attached to it.

Similarly, the second cooling passage, which is physically attached to the cylinder head, is considered as being disposed in thermal communication with the exhaust conduit. The third cooling passage [3] is disposed in thermal communication with the cylinder block. The first and second cooling passages being connected in series with each other and with the third cooling passage. An outlet of the water pump is connected in fluid communication with the water pump

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to cause at least half of the water flowing through the third cooling passage to first flow through the first and second cooling passages. The first cooling passage being connected serially between the water pump and the second cooling passage.

Regarding claim 12, the outlet of the water pump is fluidically connected to an inlet of the cylnder head cooling passage, even though it is not directly connected as such.

Allowable Subject Matter

Claims 3-5, 8-11 and 13-15 are objected to as being dependent upon a rejected base 3. claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's 4. disclosure:

Kashima, Takahashi, Okamoto, Takahashi et al. ('330 and '356), Kojima, Hundertmark, Tyner, Bethel et al., JP (673), JP (942) and JP (580) show engine cooling systems.

Any inquiry concerning this communication or earlier communications from the examiner 5. should be directed to Ajay Vasudeva whose telephone number is (703) 306-5992. The examiner can normally be reached on Monday-Friday 1:00 pm--5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S. Joe Morano can be reached on (703) 308-0230. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Ajay Vasudeva Examiner Art Unit 3617

> S. JOSEPH MORANO SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600